CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-02/754/SAND-Gradation/2015-16 : 04.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

* **Name of Work** : Improvements and asphalting to Kammagondanahalli Main Road from SM Road to Sri Rama Temple in Shettyhalli Ward No. 12, SSD, BBMP, Bangalore.

Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.02.2015

Date of Testing : 04.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.20	90-100	90-100	90-100	95-100
2.36	77.60	60-95	75-100	85-100	95-100
1.18	59.40	30-70	55-90	75-100	90-100
600 Micron	39.60	15-34	35-59	60-79	80-100
300 Micron	15.30	5-20	8-30	12-40	15-50
150 Micron	2.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note:

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VISHWANATH .C
Quality Manager

AE W.12

4/2

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-02/754/SAND-Gradation/2015-16 : 07.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, PIU, Bangalore.

*** Name of Work** : Improvements and asphalting to Kammagondanahalli Main Road from SM Road to Sri Rama Temple in Shettyhalli Ward No. 12, SSD, BBMP, Bangalore.

Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.02.2015

Date of Testing : 07.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.80	90-100	90-100	90-100	95-100
2.36	78.60	60-95	75-100	85-100	95-100
1.18	60.10	30-70	55-90	75-100	90-100
600 Micron	38.80	15-34	35-59	60-79	80-100
300 Micron	11.70	5-20	8-30	12-40	15-50
150 Micron	1.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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VISHWANATH .C
Quality Manager

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QUALITY CONTROL REPORTS FOR

WET MIX MACADAM(WMM)

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Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2015-16

16.02.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Improvements and asphalting to Kammagondanahalli Main Road from SM Road to Sri Rama Temple in Shettyhalli Ward No. 12, SSD, BBMP, Bangalore.

Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7515**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	265	265	3.5	96.5	95-100
22.4	2505	2770	36.9	63.1	60-80
11.2	1215	3985	53.0	47.0	40-60
4.75	925	4910	65.3	34.7	25-40
2.36	875	5785	77.0	23.0	15-30
0.600	785	6570	87.4	12.6	8-22
0.075	565	7135	94.9	5.1	0-8

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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7755**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	180	180	2.3	97.7	95-100
22.4	2685	2865	36.9	63.1	60-80
11.2	1350	4215	54.4	45.6	40-60
4.75	1020	5235	67.5	32.5	25-40
2.36	900	6135	79.1	20.9	15-30
0.600	750	6885	88.8	11.2	8-22
0.075	600	7485	96.5	3.5	0-8

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ಸಹಾಯಕ 16/2 ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **8320**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	310	310	3.7	96.3	95-100
22.4	2650	2960	35.6	64.4	60-80
11.2	1410	4370	52.5	47.5	40-60
4.75	1165	5535	66.5	33.5	25-40
2.36	955	6490	78.0	22.0	15-30
0.600	785	7275	87.4	12.6	8-22
0.075	655	7930	95.3	4.7	0-8

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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7515**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	215	215	2.9	97.1	95-100
22.4	2285	2500	33.3	66.7	60-80
11.2	1235	3735	49.7	50.3	40-60
4.75	1090	4825	64.2	35.8	25-40
2.36	875	5700	75.8	24.2	15-30
0.600	810	6510	86.6	13.4	8-22
0.075	625	7135	94.9	5.1	0-8

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AE W.12 16/2

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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7425**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	295	295	4.0	96.0	95-100
22.4	2345	2640	35.6	64.4	60-80
11.2	1315	3955	53.3	46.7	40-60
4.75	1115	5070	68.3	31.7	25-40
2.36	895	5965	80.3	19.7	15-30
0.600	675	6640	89.4	10.6	8-22
0.075	515	7155	96.4	3.6	0-8

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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): 7440

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	155	155	2.1	97.9	95-100
22.4	2650	2805	37.7	62.3	60-80
11.2	1185	3990	53.6	46.4	40-60
4.75	955	4945	66.5	33.5	25-40
2.36	800	5745	77.2	22.8	15-30
0.600	750	6495	87.3	12.7	8-22
0.075	555	7050	94.8	5.2	0-8

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Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7595**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	220	220	2.9	97.1	95-100
22.4	2595	2815	37.1	62.9	60-80
11.2	1205	4020	52.9	47.1	40-60
4.75	1150	5170	68.1	31.9	25-40
2.36	965	6135	80.8	19.2	15-30
0.600	600	6735	88.7	11.3	8-22
0.075	590	7325	96.4	3.6	0-8

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Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2015-16

16.02.2015

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Reference : EE/DD/WO/438/2012-13 Dated: 08.03.2013

Date of Testing : 16.02.2015

Material : WMM

Sample ID : WMM Layer

Oven Dry Wt (gm): **7965**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	325	325	4.1	95.9	95-100
22.4	2815	3140	39.4	60.6	60-80
11.2	1255	4395	55.2	44.8	40-60
4.75	945	5340	67.0	33.0	25-40
2.36	870	6210	78.0	22.0	15-30
0.600	760	6970	87.5	12.5	8-22
0.075	605	7575	95.1	4.9	0-8

Note:

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/AIV/2015-16

17.02.2015

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Improvements and asphalting to Kammagondanahalli Main Road from SM Road to Sri Rama Temple in Shettyhalli Ward No. 12, SSD, BBMP, Bangalore.
Reference	EE/DD/WO/438/2012-13 Dated: 08.03.2013
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	17.02.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	79	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	20.90	21.52	
	100* (W_2/W_1)%			**21.21**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Reference	EE/DD/WO/438/2012-13 Dated: 08.03.2013
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	17.02.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	21.73	22.34	
	100* (W_2/W_1)%			22.03

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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W.12

17/2

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